PIKES PEAK. RADIO AMATEUR ASSOC

Ø BEAT

COLO. SPRINGS, COLORADO

JUNE 1973

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CONVENTION TIME

The 1973 ARRL Rocky Mountain Convention will be held this year in Cheyenne, Wyoming on June 30-July 1. The convention will be at the Hitching Post Inn and is sponsored by the Cheyenne Radio Club. The usual exhibitors will be displaying their equipment and a number of interesting lectures will be given on all aspects of amateur radio.

Among notables who will be attending the convention will be ARRL President Harry J. Dannals, W2TUK, who will talk on ARRL form and Gus Browning, W4BPD, who will address the group on aspects of DX.

Advance registration fee is $5.00 if received by June 15th. After that date the registration fee is $6.00. Write the Cheyenne Radio Club at P.O. Box 164, Cheyenne, Wyoming 82001. A banquet will be held on Saturday evening, June 30.

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PRESIDENT'S NEWS

Gene Bacon WØCNY

This being my first effort at writing this column, I wish to thank all of you for the confidence shown in electing me to serve as your president for the balance of this year. I will try to warrant that confidence and would appreciate any constructive suggestions you may care to make. The club and I feel that Wayne Brown has done a very fine job as President, and Marty, his XYL has certainly been an asset. Frankly, I kind of wish he was still on the job. Except for a short business session, our June 13th meeting will be devoted to plans and preparations for Field Day, June 23, 1800 Z through June 24th, 2100 Z. George Kowalski, WØGCH and Mike Stansberry, WBØHCK will co-chair the committee. Anyone wishing to take part in this operation should attend this meeting. Bring a fellow amateur or interested friend. I'll see you the 13th.

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ZERO BEAT

Published in the interest of the members of the Pikes Peak Radio Amateur Association, Inc. Colorado Springs, Colorado

R. Charles Smith, WAØZZS
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The PPRAA meets at 7:30 P.M. on the second Wednesday of each month in the Security Savings & Loan Building, East Platte at Union Boulevard.

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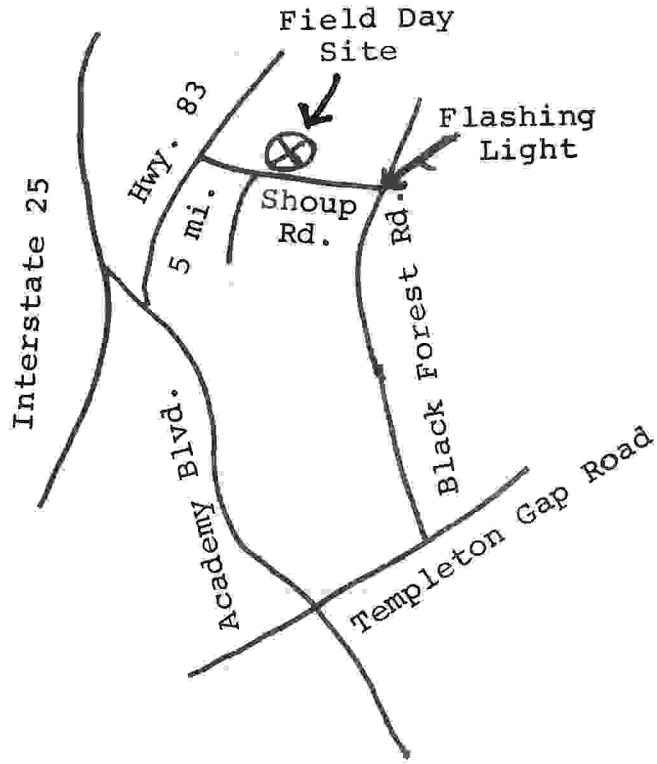
MAY MINUTES Irv Ebel, WØKWV

PPRAA meeting held at Security Savings and Loan Building, Platte Ave and Union Blvd on May 9, 1973 .....Called to order at 19:42 by President Wayne Brown, W2TPV/Ø .....President Brown made the announcement that Vice President, Dale Green, WØLDV had already left Colorado Springs.....Three visitors introduced themselves - two are hams, the other a former ham.....Comments on Mike Anderson WNØEQM possibly passing his General Class exam.....Minutes of April meeting approved as printed in ZERO BEAT.....Treasurers report by Chuck Myers, WAØZCS approved as read.....Correspondence explained by Secretary Irvin Ebel, WØKWV - a letter sent to the Secretary of State office for registration of the club as a non-profit organization.....Old business -negative.....New business - special election to be held for president, vice president and one board member..... Report by Pete Demario, KØ UDG dent and one board member..... Report by Pete Demario, KØUDG on repeater improvements with added comments by George Kowalski, WØGCH.....Brief discussion on Field Day by George Kowalski.... Special election followed - nominated were: Kelly Anerson, WØDQC, Mike Stansberry, WBØHCK, James Don Carlos, WØITU, Gene Bacon, WØCNY, Dean Jaynes, WAØPJH, George Kowalski, WØGCH, and Walt Atkins, WBØHKB.....The following officers were elected: President - Gene Bacon; Vice-

(Continued on Page 6)



FIELD DAY

Field Day will be held this year at the same location as last year - the picnic area in Black Forest. Dates and times are from 12:00 noon on June 23rd to 3:00 PM on June 24th. A CW station and phone station will be set up and both 6 meter AM and 6 meter FM equipment will be on hand in case the band opens up.

George Kowalski, WØGCH, co-chairman of Field Day, stated thatmore operators and help are needed for the event. Help would be especially appreciated at set-up time on June 23rd and tear-down time on June 24th. Operators will be welcome at any time but are most needed during the wee hours of the morning so that everyone would be able to grab a cup of coffee and maybe a short nap.

Anyone having equipment that could be used for Field Day is asked to be sure to attend the meeting or contact George or Mike Stansberry, WBØHCK. Final details of Field Day will be worked out at the June meeting, so plan now to attend and express your ideas and opinions.

RADIO STATION OPERATED BY GOLDWATER

Family voices with reassuring hometown news or excited birth announcements flowed to South Vietnam during the war through an amateur radio station operated by Sen. Barry Goldwater. Now the station links servicemen in Thailand and the Philippines with their homes. The station carried three-minute broadcast-telephone calls from South Vietnam until all stations there were closed as troops were withdrawn.

More than 132,000 telephone calls have passed through the amateur radio transmitters operated by the Arizona Republican since the facility became a Military Affiliate Radio Station in August 1967. Under the system, a serviceman places his call through an overseas transmitter. It is relayed through Goldwater's station into the telephone system.

Thirty-two amateur radio operators work in shifts at the station in the basement of Goldwater's home in northeast Phoenix. They are members of a club called "Bash Hal Ne Ae", Navajo for "metal that talks". Goldwater is president.

"He runs it himself, when he's available", said an operator about Goldwater, the unsuccessful Republican candidate for president in 1964. "Goldwater pays for all Arizona calls, no matter where they are", said Robert Chamberlain one of the operators. Persons receiving calls outside Arizona pay only the telephone tolls from Phoenix to their homes. Chamberlain said the station has handled as many as 150 calls a day in a radio room marked by the Arizona Senator's two-star general plaque. Goldwater is a member of the Air Force Reserve. So far this year, the station has handled over 6,000 calls.

-Associated Press

Art Geyer, K8SWW/WØJSW of Milford, Michigan says Hi to PPRAA and thanks for his start in FM. He is now trustee of Milford's 2 meter F M repeater station WR8AAA.

rr

Heard on the band - stations with prefex UT - Russia, maybe, huh? Some good openings on 10 and 15.

rr

Frank Richards (Audio-Visual co-ordinator at Palmer High School) gave some lectures on Amateur Radio. I was privileged to assist and learned some interesting starting dates: Amateur Radio got a start in 1901, ARRL in 1914, commercial radio in 1920, and Amateurs put up the first 'Oscar' in 1961.

rr

There are 3,827 licensed amateurs in Colorado according to the 1973 Call Book. Here's the breakdown: 17 military...333 Novice Class... 557 Technician Class...612 Conditional Class...1,185 General Class,..888 Advanced Class...and 180 Extra Class. There are 55 club stations listed in Colorado. Thanks to DENVER ROUND TABLE.

rr

Did you know that the following are just a few of the more famous persons who are licensed amateurs: King Hussein of Jordon; Bill Leonard (CBS); Arthur Godrey; General Curtis Lemay; and Senator Barry Goldwater.

MORSE TELEGRAPHY COMES TO A CLOSE

The words that opened the era of Morse telegraphy just over 128 years ago also brought that age to a close on the North American continent as Canadian Pacific Telecommunications, a subsidiary of Canadian Pacific, closed its last remaining Morse commercial circuit with the sending of "What hath God wrought?". Thus, in just about a minute, an era closed; the time was 11:15 A.M. on May 30.

WESTPARK RADIOPS

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LICENSE EXPIRATION NOTICE

The License Expiration Notice Service will keep track of your license expiration date and will remind you in advance. Note the expiration date on a self-addressed, stamped post-card and send it to Joan Machinchick, K3KBI, 1023 Lake Claire Drive, RFD 4, Annapolis, Maryland 21401

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TOUCHTONE PADS

Bob Shriner, WAØUZO

Connecting touchtone pads to 2-way radios is not very difficult provided that a few rules are observed. Of primary importance is impedance matching. The impedance of the touchtone pad is around 600 ohms. You will have to find out for yourself what the microphone impedance is of the transmitter that you are going to feed into.

Next of great importance is that the touchtone pad puts our a much higher level tone than your microphone. Don't confuse the output level of the touchtone pad with impedance. Now we need a DC voltage source. Practically any good clean DC voltage of 3 to 12 volts can be used. Again let me caution you - the DC voltage does not effect impedance or output level to any great extent. Naturally any of the above 3 items will effect each other to a small extent.

Now let's get down to the nitty-gritty of the problem. Let's assume that you know your mike impedance. If you don't then look it up; if you can't find it then ask somebody - just don't ask me because I'm darned if I know what the impedance of your mike is.

You don't have to be exact in this matter of impedance, but if you have a low impedance mike (around 600 ohm). such as most transistor sets use, then don't try to use a high impedance lashup such as a 100,000 ohm crystal mike would use.

Next, decide on your DC voltage source - any small battery will work fine as the power requirements are very small and most any battery will last a year or so. Two drawings are shown as suggestions for making your connections. If low impedance is required, then a simple resistor and capacitor will work fine. The resistor can be any value from .01 to 10mfd. These values can be varied to change output level and impedance to a limited extent. If high impedance is required, then it is best to use a small transformer. It is always best to use a small switch to change from mike to touchtone and to break voltage to your touchtone pad. Most touchtone pads don't draw any current until a button is pushed, but you might as well be safe.

Some touchtone pads have a set of contacts that at first thought you may want to use in place of your

(Continued on Page 7)

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MAY MINUTES
(Continued from Page 2)

President - George Kowalski, Board Member - James Don Carlos .....Board of Directors are: Pete Demario, KØUDG, Chairman; Irvin Ebel, WØKWV, Secretary; Charles Myers, WAØZCS; Edward Pompea, KØZPG; Charles Smith, WAØZZS; Gene Bacon, WØCNY, George Kowalski, WØGCH; and James Don Carlos, WØITU..... Following the election, outgoing President, Wayne Brown turned the meeting over to the newly elected President, Gene Bacon .....Comments by Charles Smith, WAØZZS to cut summer meetings for June, July and August - after discussion it was decided against this.....Coffee break, with drawing for door prizes .....General discussion followed on club activity in regard to new members and in particular, Novice Class licensee's..... Further comments by George Kowalsk on Field Day: Date - call for any equipment to be used - plan for whatever can be used for best results. Field Day activities will be held at the Black Forest Picnic Area. Mike Anderson plans for a Novice Class station.....Meeting adjourned at 21:30.

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WANT ADS

Wanted: A Good heavy duty typewriter table, preferably with folding side extension. Phone Don, WØITU at 598-8930.

For Sale or Trade: Hi-Gain DB-24 dual bander beam antenna with CDR HAM-M rotator, 40' tilt-over mast and 75' of coax. Will trade for Heath HW-22 or a good 2 wheel utility trailer. Key Keyte, WØTGL. Phone 598-8576.

For Sale: Miscellaneous Model 28 Teleprinter pieces and parts. Tell me what you need. I also have teletype manuals coming. Don, WØITU. Phone 598-8930.

Motorola Parts can be ordered from David Givan, KØIRP. Telephone 636-2589 or write P. O.Box 2043, Colorado Springs 80901.

Remember, no charge to any club member for classified ads on ham equipment or anything else for sale or trade.

****

One reason the dog has so many friends is that he wags his tail instead of his tongue.

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TOUCHTONE PADS

(Continued from Page 5)

normal PTT button on your mike. This won't work through our repeater system and auto-patch because the repeater will groan and grunt as it is keyed this many times during a dialed number.

After connecting your system, check it out on an oscilloscope to make sure that it's working. Once more let me say DON'T TRY TO WORK A LOW IMPEDANCE SYSTEM INTO A HIGH IMPEDANCE SCOPE. A touchtone pad that will properly work into a high impedance scope will not necessarily work into a low impedance mike input.

I hope you don't think that I'm harping on this subject of impedance too much, but the only touchtone pads that don't work right are the ones that are not correctly matched, and a reasonably close match must be obtained in order to have the touchtone pad put out the correct frequencies and levels to operate through our system.

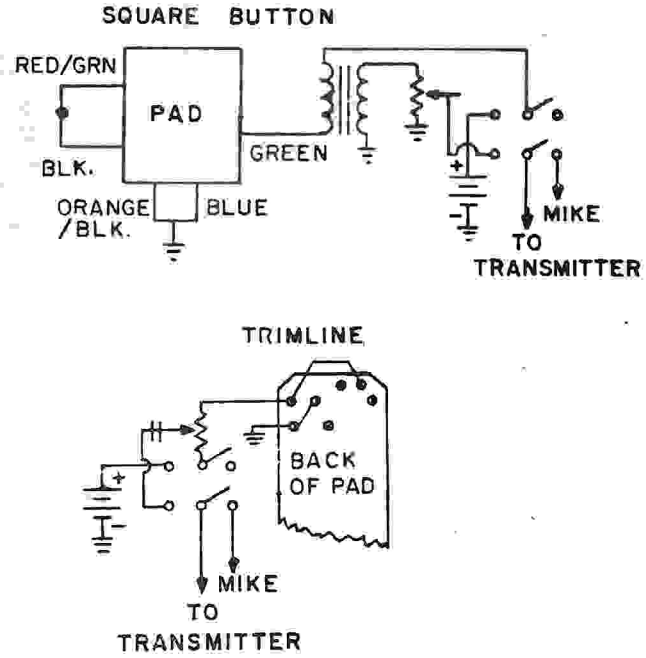
We have purposely built the system so that it is very particular as to the level and frequency of the touchtone signals that it will accept. This was done so that if you can access the repeater touchtone, then your tones are OK to put on the telephone line for dialing purposes.

****

AMATEUR RADIO WEEK

This year's Amateur Radio Week will be June 17-23, concluding with Field Day, June 23-24. This is a great opportunity to make some points for the PR Department. Anyone that has the opportunity should plan now for some displays in the Bank lobbies, store windows, libraries and schools, or maybe where they work.

TOUCHTONE PAD HOOK-UPS



NOTE: Square button pad shown with transformer hookup normally used for high impedance. Trimline shown with resistor capacitor hookup normally used for low impedance. These hookups may be interchanged. Component values are purposely left off as they must be determined for the individual transmitter.

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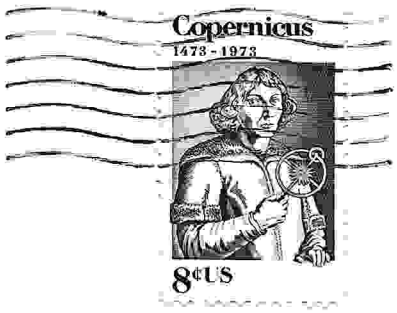

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